



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission

19 + 185
Refs.

Application Number	10/523,250
Filing Date	January 26, 2005
First Named Inventor	Marc K. HELLERSTEIN
Art Unit	Not Yet Assigned
Examiner Name	Not Yet Assigned

Attorney Docket Number 416272003800

ENCLOSURES (Check all that apply)

<input type="checkbox"/> Fee Transmittal	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> After Allowance Communication to Group
<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input type="checkbox"/> Amendment/Reply	<input type="checkbox"/> Petition	<input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> After Final	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address	<input type="checkbox"/> Status Letter
<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Terminal Disclaimer	<input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):
<input type="checkbox"/> Express Abandonment Request	<input type="checkbox"/> Request for Refund	1. One Copy of each 185 Cited References
<input checked="" type="checkbox"/> Information Disclosure Statement w/ Form PTO/SB/08a/b (18 pages)	<input type="checkbox"/> CD, Number of CD(s)	2. Return Receipt Postcard
<input type="checkbox"/> Certified Copy of Priority Document(s)		
<input type="checkbox"/> Response to Missing Parts/ Incomplete Application		
<input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53		
	<input type="checkbox"/> Remarks	

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

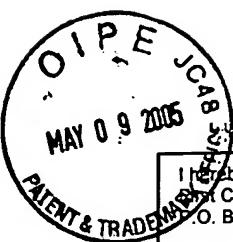
Firm or Individual name	MORRISON & FOERSTER LLP (Customer No. 20872) Michael R. Ward - Reg. No. 38,651
Signature	
Date	May 6, 2005

I hereby certify that this correspondence is being deposited with the U.S. Postal Service with sufficient postage as First Class Mail, in an envelope addressed to: MS Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date shown below.

Dated: May 6, 2005

Signature:

(Leah Kjellen)



I hereby certify that this correspondence is being deposited with the U.S. Postal Service as First Class Mail, in an envelope addressed to: MS Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date shown below.

Dated: May 4, 2005

Signature: 

(Leah Kjellen)

Patent
Docket No. 416272003800
B01-075

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Marc K. HELLERSTEIN

Serial No.: 10/523,250

Filing Date: January 26, 2005

For: METHOD FOR AUTOMATED, LARGE-
SCALE MEASUREMENT OF THE
MOLECULAR FLUX RATES OF THE
PROTEOME OR THE ORGANEOME
USING MASS SPECTROMETRY

Examiner: Not Yet Assigned

Group Art Unit: Not Yet Assigned

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. § 1.97 & 1.98

MS Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Dear Sir:

Pursuant to 37 C.F.R. §1.97 and § 1.98, Applicant submit for consideration in the above-identified application the documents listed on the attached Form PTO/SB/08a/b. Copies of foreign documents and non-patent literature are submitted herewith. The Examiner is requested to make these documents of record.

This Supplemental Information Disclosure Statement is submitted:

- With the application; accordingly, no fee or separate requirements are required.
- Before the mailing of a first Office Action after the filing of a Request for Continued Examination under § 1.114. However, if applicable, a certification under 37 C.F.R. § 1.97 (e)(1) has been provided.
- Within three months of the application filing date or before mailing of a first Office Action on the merits; accordingly, no fee or separate requirements are required. However, if applicable, a certification under 37 C.F.R. § 1.97 (e)(1) has been provided.**
- After receipt of a first Office Action on the merits but before mailing of a final Office Action or Notice of Allowance.
 - A fee is required. A check in the amount of __ is enclosed.
 - A fee is required. Accordingly, a Fee Transmittal form (PTO/SB/17) is attached to this submission in duplicate.
 - A Certification under 37 C.F.R. § 1.97(e) is provided above; accordingly; no fee is believed to be due.
- After mailing of a final Office Action or Notice of Allowance, but before payment of the issue fee.
 - A Certification under 37 C.F.R. § 1.97(e) is provided above and a check in the amount of __ is enclosed.
 - A Certification under 37 C.F.R. § 1.97(e) is provided above and a Fee Transmittal form (PTO/SB/17 is attached to this submission in duplicate.)

Applicant would appreciate the Examiner initialing and returning the Form PTO/SB/08a/b, indicating that the information has been considered and made of record herein.

The information contained in this Supplemental Information Disclosure Statement under 37 C.F.R. § 1.97 and § 1.98 is not to be construed as a representation that: (i) a complete search has been made; (ii) additional information material to the examination of this application does not exist; (iii) the information, protocols, results and the like reported by third parties are accurate or enabling; or (iv) the above information constitutes prior art to the subject invention.

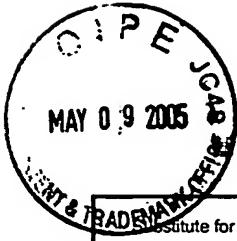
In the unlikely event that the transmittal form is separated from this document and the Patent and Trademark Office determines that an extension and/or other relief (such as payment of a fee under 37 C.F.R. § 1.17 (p)) is required, Applicant petitions for any required relief including extensions of time and authorize the Commissioner to charge the cost of such petition and/or other fees due in connection with the filing of this document to **Deposit Account No. 03-1952** referencing docket no. **416272003800**.

Dated: May 6, 2005

Respectfully submitted,

By Michael R. Ward
Michael R. Ward
Registration No.: 38,651

MORRISON & FOERSTER LLP
425 Market Street
San Francisco, California 94105-2482
Telephone: (415) 268-6237
Facsimile: (415) 268-7522



MAY 09 2005

ALTERNATIVE TO PTO/SB/08a/b (06-03)

INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				<i>Complete if Known</i>	
				Application Number	10/523,250
				Filing Date	January 26, 2005
				First Named Inventor	Marc K. HELLERSTEIN
				Art Unit	Not Yet Assigned
				Examiner Name	Not Yet Assigned
Sheet	1	of	15	Attorney Docket Number	416272003800

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
1.	US-4,332,784		06-01-1982	Smith et al.	
2.	US-5,338,686		08-16-1994	Hellerstein	
3.	US-5,439,803		08-08-1995	Ross et al.	
4.	US-5,910,403		06-08-1999	Hellerstein	
5.	US-5,961,470		10-05-1999	Wagner et al.	
6.	US-6,010,846		01-04-2000	Hellerstein	
7.	US-6,461,806		10-08-2002	Hellerstein	
8.	US-6,461,870-B2		10-08-2002	Yatscoff et al.	
9.	US-6,468,802-B1		10-22-2002	Yatscoff et al.	
10.	US-6,599,750-B2		07-29-2003	Yatscoff et al.	
11.	US-6,602,715-B2		08-05-2003	Yatscoff et al.	
12.	US-6,653,076		11-25-2003	Franza, Jr. et al.	
13.	US-6,653,090-B1		11-25-2003	Lopaschuk	
14.	US-6,808,875-A1		10-26-2004	Hellerstein	
15.	US-2003/0133871-A1		07-17-2003	Hellerstein	
16.	US-2003/0148533		08-07-2003	Malloy et al.	
17.	US-2003/0180710		09-25-2003	Lee et al.	
18.	US-2003/0180800		09-25-2003	Lee et al.	
19.	US-2003/0224420-A1		12-04-2003	Hellerstein et al.	
20.	US-2003/0228259		12-11-2003	Hellerstein	
21.	US-2004/0081994		04-29-2004	Hellerstein	
22.	US-2004/0091943		05-13-2004	Schneider	
23.	US-2004/0115131-A1		06-17-2004	Hellerstein	
24.	US-2004/0152994		08-05-2004	Meier-Augenstein	
25.	US-2004/0253647		12-16-2004	Mathews et al.	
26.	US-2005/0019251-A1		01-27-2005	Hellerstein	
27.	US-2005/0053992-A1		03-10-2005	Hellerstein	
28.	US-10/519,121		FD 09-15-2003	Hellerstein	
29.	US-10/526,860		FD 09-04-2003	Hellerstein	
30.	US-10/872,280		FD 06-17-2004	Hellerstein	
31.	US-10/963,967		FD 10-12-2004	Hellerstein	
32.	US-10/997,323		FD 11-23-2004	Hellerstein	
33.	US-11/064,197		FD 02-22-2005	Hellerstein	
34.	US-11/078,083		FD 03-11-2005	Hellerstein	
35.	US-11/094,387		FD 03-29-2005	Hellerstein	

Examiner Signature	Date Considered
--------------------	-----------------



Substitute for form 1449/PTO				Complete if Known	
				Application Number	10/523,250
				Filing Date	January 26, 2005
				First Named Inventor	Marc K. HELLERSTEIN
				Art Unit	Not Yet Assigned
				Examiner Name	Not Yet Assigned
Sheet	2	of	15	Attorney Docket Number	416272003800

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ²
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
36.	WO-90/11371		10-04-1990	Anticancer, Inc.		
37.	WO-93/25705		12-23-1993	Barranco		
38.	WO-98/51820		11-19-1998	Hellerstein		
39.	WO-03/061479-A1		07/31/2003	Hellerstein		
40.	WO-03/068919-A2		08/21/2003	Hellerstein		
41.	WO-03/087314-A2		10/23/2003	Hellerstein		
42.	WO-04/003493-A2		01/08/2004	Hellerstein		
43.	WO-04/011426-A2		02/05/2004	Hellerstein		
44.	WO-04/021863-A2		03/18/2004	Hellerstein		
45.	WO-04/024941-A2		03/25/2004	Hellerstein		
46.	WO-04/025270-A2		03/25/2004	Hellerstein		
47.	WO-04/042360-A2		05/21/2004	Hellerstein		
48.	WO-05/009597-A2		02/03/2005	Hellerstein		
49.	WO-05/015155-A2		02/17/2005	Hellerstein		
50.	WO-05/033652-A2		04/14/2005	Hellerstein		

*EXAMINER: Initial if information considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS						
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.				T ²
	51.	International Search Report mailed on April 13, 2004, for PCT application no. PCT/US03/20052 filed on June 25, 2003, 3 pages				
	52.	International Search Report mailed July 8, 2004, for PCT patent application no. PCT/US03/27623 filed on September 4, 2003, 4 pages				
	53.	International Search Report mailed on June 29, 2004, for PCT application no. PCT/US03/04183 filed on February 12, 2003, 4 pages				
	54.	International Search Report mailed on July 9, 2004, for PCT application no. PCT/US03/35107 filed on November 4, 2003, 2 pages				
	55.	International Search Report mailed on August 18, 2004, for PCT application PCT/US03/29526, filed September 16, 2003, 3 pages				
	56.	International Search Report mailed on August 20, 2004, for PCT application no. PCT/US03/10554 filed on April 4, 2003, 4 pages				

Examiner Signature	Date Considered
--------------------	-----------------



Substitute for form 1449/PTO

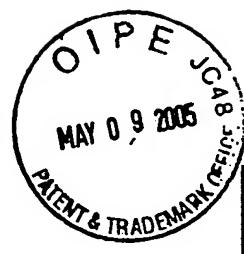
INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet	3	of	15	Attorney Docket Number	416272003800
-------	---	----	----	------------------------	--------------

57.	International Search Report mailed on January 19, 2005, for PCT application no. PCT/US03/29361 filed on September 15, 2003, 4 pages	
58.	International Search Report mailed on March 25, 2005, for PCT application no. PCT/US04/39722 filed on November 24, 2004, 3 pages	
59.	International Search Report mailed on April 4, 2005, for PCT application no. PCT//US04/21063 filed on June 29, 2004, 2 pages	
60.	"New Diagnostic Technique Could Help Treat AIDS," Agence France-Presse, Dow Jones News/Retrieval, Feb. 17, 1998, pp. 1-2.	
61.	ADAMI, H.O. et al. (1995) "The Aetiology and Pathogenesis of Human Breast Cancer" <i>Mutation Research</i> 333: 29-35	
62.	AIRHART, J. et al. (1974) "Compartmentation of Free Amino Acids for Protein Synthesis in Rat Liver" <i>Biochem J.</i> 140: 539-545	
63.	AJIE, H.O. et al. (1995) "In Vivo Study of the Biosynthesis of Long-Chain Fatty Acids Using Deuterated Water" <i>Am. J. Physiol.</i> 269: E247-E252	
64.	ANDERSON, R.W. et al. (1998) "Direct HIV Cytopathicity Cannot Account for CD4 Decline in AIDS in the Presence of Homeostasis: A Worst-Case Dynamic Analysis" <i>J. AIDS and Human Retrovirology</i> 17:245-252	
65.	ANTELO, Fernando et al. (2002) "Adipose Triglyceride (TG) Turnover and De Novo Lipogenesis (DNL) in Humans: Measurement by Long-Term ² H ₂ O Labeling and Mass Isotopomer Distribution Analysis (MIDA)" <i>Experimental Biology</i> 16 [Meeting Abstract 361.10]: A400	
66.	ASHER, E. et al. (1995) "Evaluation of Cell Death in EBV-Transformed Lymphocytes Using Agarose Gel Electrophoresis, Light Microscopy and Electron Microscopy" <i>Leukemia and Lymphoma</i> 19:107-119	
67.	ATTARDI, Giuseppe et al. (1988) "Biogenesis of Mitochondria." <i>Ann. Rev. Cell. Biol.</i> 4:289-333	
68.	BACH, Simon P. et al. (2000) "Stem Cells: The Intestinal Stem as a Paradigm" <i>Carcinogenesis</i> 21(3): 469-476	
69.	BANDSMA, Robert H.J. et al. (1998) "Contribution of Newly Synthesized Cholesterol to Rat Plasma and Bile Determined by Mass Isotopomer Distribution Analysis: Bile-Salt Flux Promotes Secretion of Newly Synthesized Cholesterol into Bile" <i>Biochem. J.</i> 329: 699-703	
70.	BANDSMA, Robert H.J. et al. (2000) "The Contribution of Newly Synthesized Cholesterol to Bile Salt Synthesis in Rats Quantified By Mass Isotopomer Distribution Analysis" <i>Biochimica et Biophysica Acta</i> 1483: 343-351	

Examiner Signature		Date Considered
--------------------	--	-----------------



Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

				Complete if Known
Application Number	10/523,250			
Filing Date	January 26, 2005			
First Named Inventor	Marc K. HELLERSTEIN			
Art Unit	Not Yet Assigned			
Examiner Name	Not Yet Assigned			
Sheet	4	of	15	Attorney Docket Number 416272003800

71.	BERTANI, Roberta et al. (January 2002) "Measurement of Total Body Water (TBW) Through In Vivo Dilution of Tracer Compounds: Use of D2O and its Determination by FT Infrared Spectroscopy" <i>Annali diChimica</i> 92:135-138	
72.	BICKENBACH, J.R. (1981) "Identification and Behavior of Label-Retaining Cells in Oral Mucosa and Skin" <i>J Dent Res</i> 1611-1620	
73.	BINGHAM, S.A. (January 1994) "The Use of 24-h Urine Samples and Energy Expenditure to Validate Dietary Assessments" <i>American Journal of Clinical Nutrition</i> 59 [1 Supp.]: 227S-231S	
74.	BLACK, G.E. et al. (January 2001) "Labeling DNA with Stable Isotopes: Economical and Practical Considerations," <i>BioTechniques</i> 30:134-140	
75.	BLAIR, Steven N. et al. (1995) "Changes in Physical Fitness and All-Cause Mortality: A Prospective Study of Healthy and Unhealthy Men." <i>JAMA</i> 273(14): 1093-1098	
76.	BLAU, K. and HALKET, J. eds. (1993) <u>Handbook of Derivatives for Chromatography</u> , 2nd Edition, John Wiley & Sons Ltd., England	
77.	BONOTTO, S. et al. (1977) "Study of the Distribution and Biological Effects of 3H in the Algae Acetabularia, Chlamydomonas and Porphyra" <i>Current Topics in Radiation Quarterly</i> 12: 115-132	
78.	BRAVO, Elena et al. (1994) "Decreased Hepatic Uptake and Processing of High Density Lipoprotein Unesterified Cholesterol and Cholestryl Ester with Age in the Rat" <i>J. Biochem.</i> 116: 1088-1095	
79.	BROWN, Alan S. et al (1998) "Treating Patients with Documented Atherosclerosis to National Cholesterol Education Program-Recommended Low-Density-Lipoprotein Cholesterol Goals with Atorvastatin, Fluvastatin, Lovastatin and Simvastatin" <i>J. Am. Coll. Cardiol.</i> 32: 665-672	
80.	BUZY, R.P. et al. (1998) "Analysis of Lymph Node Biopsies in HIV Infected Patients Before and After HAART" <i>Abstract, 5th Conference on Retroviruses and Opportunistic Infections, Session 66</i> 519:177	
81.	CALDWELL, K.A. et al. (1993) "Quantification of Peptide Isotopomer Abundances and Determination of Protein (sic) Turnover Rates by Using Mass Isotopomer Distribution Analysis" <i>Abstract, 41st Annual Amer. Society Mass Spectrometry on Mass Spectrometry</i> , p. 331a.	
82.	CASSELLA, C.R. et al. (1997) "Mechanisms of Lymphocyte Killing by HIV" <i>Current Opinion in Hematology</i> 4:24-31	
83.	CESAR, D. et al. (1998) "Direct Measurement of CD4+ and CD8+ T Cell Proliferation Rates in Vivo in AIDS Patients Using a Stable	

Examiner Signature		Date Considered	
--------------------	--	-----------------	--



Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

				Complete if Known
Application Number	10/523,250			
Filing Date	January 26, 2005			
First Named Inventor	Marc K. HELLERSTEIN			
Art Unit	Not Yet Assigned			
Examiner Name	Not Yet Assigned			
Sheet	5	of	15	Attorney Docket Number 416272003800

		Isotope-Mass Spectrometric Technique" <i>Abstract, 5th Conference on Retroviruses and Opportunistic Infections</i> , Chicago Illinois	
84.		CHINKES, David L. et al. (1996) "Comparison of Mass Isotopomer Dilution Methods Used to Calculate VLDL Production in Vivo" <i>Am. J. Physiol.</i> 271 (Endocrinol. Metab. 34): E373-E383	
85.		CHRISTIANSEN Mark P. et al. (October 2000) "Effect of Dietary Energy Restriction on Glucose Production and Substrate Utilization in Type 2 Diabetes" <i>Diabetes</i> 49: 1691-1699	
86.		CLAYTON, David (1991) "Replication and Transcription of Vertebrate Mitochondrial DNA" <i>Annu. Rev. Cell Biol.</i> 7:453-478	
87.		COHEN, A. et al. (1983) "Purine and Pyrimidine Metabolism in Human T Lymphocytes," <i>J. Biol. Chem.</i> 258(20):12334-12340	
88.		COHEN, J. (1998) "Failure Isn't What It Used to Be...But Neither is Success" <i>Science</i> 279:1133-1134	
89.		CONNERS, M. et al. (1997) "HIV Infection Induces Changes in CD4+ T-Cell Phenotype and Depletions Within the CD4+ T-Cell Repertoire that are not Immediately Restored by Antiviral or Immune-Based Therapies" <i>Nature Medicine</i> 3(5):533-540	
90.		CONRADS, Thomas P. et al. (January 2002) "Stable Isotope Labeling in Proteomics" <i>The Synthesis Cambridge Isotope Laboratories</i> 3 (2): 1-3	
91.		CRAIG, Suzanne B. et al. (September 1996) "The Impact of Physical Activity on Lipids, Lipoproteins, and Blood Pressure in Preadolescent Girls" <i>Pediatrics</i> 98 (3): 389-395	
92.		CRAIN, P.F.(1990) "Preparation and Enzymatic Hydrolysis of DNA and RNA for Mass Spectrometry," <i>Meth. Enz.</i> 193:782-790	
93.		DAVIS, Ajuah et al. (July 2000) "Effect of Pinitol Treatment on Insulin Action in Subjects With Insulin Resistance" <i>Diabetes Care</i> 23 (7):1000-1005	
94.		DEEKES, S. et al. (1998) "Viral Load and CD4+ T Cell Changes in Patients Failing Potent Protease Inhibitor Therapy" <i>Abstract, 5th Conference on Retroviruses and Opportunistic Infections, Session 53, 419:158</i>	
95.		DEEKES, Steven G. et al. (2002) "CD4+ T Cell Kinetics and Activation in Human Immunodeficiency Virus-Infected Patients Who Remain Viremic Despite Long-Term Treatment with Protease Inhibitor-Based Therapy" <i>Journal of Infectious Diseases</i> 185:315-323	
96.		DEKKER, Evelien et al. (1997) "Glucose Homeostasis in Children with Falciparum Malaria: Precursor Supply Limits Gluconeogenesis and	

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

sf-1910278



Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

				Complete if Known
Application Number	10/523,250			
Filing Date	January 26, 2005			
First Named Inventor	Marc K. HELLERSTEIN			
Art Unit	Not Yet Assigned			
Examiner Name	Not Yet Assigned			
Sheet	6	of	15	Attorney Docket Number 416272003800

		Glucose Production" <i>J Clin Endocrinol Metabol</i> 82: 2514-2521	
97.		DIMITROV, D.S. et al. (1995) Scientific Correspondence, <i>Nature</i> 375:194-195	
98.		ETNIER, E.L. et al. (1984) "Metabolism of Organically Bound Tritium in Man" <i>Radiat. Res.</i> 100: 487-502	
99.		FAGERQUIST, Clifton K. et al. (1999) "Molecular Ion Fragmentation and Its Effects on Mass Isotopomer Abundance of Fatty Acid Methyl Esters Ionized By Electron Impact." <i>J Am Soc Mass Spectrom</i> 10: 430-439	
100.		FAGERQUIST, Clifton K. et al. (2001) "Elimination of the Concentration Dependence in Mass Isotopomer Abundance Mass Spectrometry of Methyl Palmitate Using Metastable Atom Bombardment." <i>J Am Soc Mass Spectrom</i> 12:754-761	
101.		GOROCHOV, G. et al. (1998) "Perturbation of CD4+ and CD8+ T-Cell Repertoires During Progression to AIDS and Regulation of the CD4+ Repertoire During Antiviral Therapy," <i>Nature Medicine</i> 4(2):215-221	
102.		GOZ, Barry (1978) "The Effects of Incorporation of 5-Halogenated Deoxyuridines into DNA of Eukaryotic Cells" <i>Macological Reviews</i> 29, (4): 249-272	
103.		GRATZNER, H.G. (1982) "Monoclonal Antibody to 5-Bromo-and 5-Iododeoxyuridine: A New Reagent for Detection of DNA Replication" <i>Science</i> 218:474-475	
104.		HELLERSTEIN, M. et al. (1999) "Directly Measured Kinetics of Circulating T Lymphocytes in Normal and HIV-1-Infected Humans" <i>Nature Medicine</i> 5 (1):83-89	
105.		HELLERSTEIN, M. K. et al. (1992) "Mass Isotopomer Distribution Analysis: a Technique for Measuring Biosynthesis and Turnover of Polymers" <i>Am J Physiol</i> 263: E988-E1001	
106.		HELLERSTEIN, M.K. et al. (1994) "Mass Isotopomer Distribution Analysis for Measuring Fluxes Through Intracellular Metabolic Pathways and Biosynthetic Rates of Polymers" <i>IFAC Modeling and Control in Biomedical Systems</i> , pages 353-359	
107.		HELLERSTEIN, M.K. et al. (1997) "Hepatic Gluconeogenic Fluxes and Glycogen Turnover During Fasting in Humans." <i>J. Clin. Invest.</i> 100(5): 1305-1319	
108.		HELLERSTEIN, M.K. et al. (1997) "T Cell Turnover in HIV-1 Disease," <i>Immunity</i> 7:583-589 (Nov. 1997).	
109.		HELLERSTEIN, Marc K. (1995) "Methods for Measurement of Fatty Acid and Cholesterol Metabolism" <i>Current Opinion in Lipidology</i> 6:	

Examiner Signature		Date Considered	
--------------------	--	-----------------	--



Substitute for form 1449/PTO

 INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(Use as many sheets as necessary)

				Complete if Known	
Application Number	10/523,250				
Filing Date	January 26, 2005				
First Named Inventor	Marc K. HELLERSTEIN				
Art Unit	Not Yet Assigned				
Examiner Name	Not Yet Assigned				
Sheet	7	of	15	Attorney Docket Number	416272003800

	172-181	
110.	HELLERSTEIN, Marc K. (1999) "Measurement of T-Cell Kinetics: Recent Methodologic Advances" Trends Immunology Today 20(10): 438-441	
111.	HELLERSTEIN, Marc K. (1999) "The Changing Face of AIDS: Translators Needed" Am J Clin Nutr 70: 787-788	
112.	HELLERSTEIN, Marc K. (2001) "No Common Energy: de Novo Lipogenesis as the Road Less Traveled" Am J Clin Nutr 74:707-708	
113.	HELLERSTEIN, Marc K. (2002) "Carbohydrate-Induced Hypertriglyceridemia: Modifying Factors and Implications for Cardiovascular Risk" Curr Opin Lipidol 13: 33-40	
114.	HELLERSTEIN, Marc K. (2003) "In Vivo Measurement of Fluxes Through Metabolic Pathways: The Missing Link in Functional Genomics and Pharmaceutical Research" Annu. Rev. Nutr. 23: 379-402	
115.	HELLERSTEIN, Marc K. et al. (1986) "Glycoconjugates as Noninvasive Probes of Intrahepatic Metabolism: Pathways of Glucose Entry into Compartmentalized Hepatic UDP-glucose Pools during Glycogen Accumulation." Proceedings of the National Academy of Sciences of the United States of America 83, Issue 18: 7044-7048	
116.	HELLERSTEIN, Marc K. et al. (1993) "Model for Measuring Absolute Rates of Hepatic de Novo Lipogenesis and Reesterification of Free Fatty Acids." Am. J. Physiol. 265: E814-E820	
117.	HELLERSTEIN, Marc K. et al. (1994) "Effects of Cigarette Smoking and its Cessation on Lipid Metabolism and Energy Expenditure in Heavy Smokers." J. Clin. Invest. 93: 265-272	
118.	HELLERSTEIN, Marc K. et al. (1997) "Altered Fluxes Responsible For Reduced Hepatic Glucose Production and Gluconeogenesis by Exogenous Glucose in Rats." Am. J. Physiol. 272: E163-E172	
119.	HELLERSTEIN, Marc K. et al. (1997) "Measurement of Hepatic Ra UDP-glucose in Vivo in Rats: Relation to Glycogen Deposition and Labeling Patterns" Am. J. Physiol. 272: E155-E162	
120.	HELLERSTEIN, Marc K. et al. (1999) "Mass Isotopomer Distribution Analysis at Eight Years: Theoretical, Analytic, and Experimental Considerations. Am. J. Physiol. 276: E1146-E1170	
121.	HELLERSTEIN, Marc K. et al. (2002) "Measurement of Synthesis Rates of Slow-turnover Proteins from 2H2O Incorporation into Non-essential Amino Acids (NEAA) and Application of Mass Isotopomer Distribution Analysis (MIDA)" Faseb Journal Experimental Biology	

Examiner Signature		Date Considered	
--------------------	--	-----------------	--



Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

				Complete if Known
Application Number				10/523,250
Filing Date				January 26, 2005
First Named Inventor				Marc K. HELLERSTEIN
Art Unit				Not Yet Assigned
Examiner Name				Not Yet Assigned
Sheet	8	of	15	Attorney Docket Number 416272003800

	2002: Meeting Abstracts 16: A256
122.	HO, D.D. et al. (1995) "Rapid Turnover of Plasma Virions and CD4 Lymphocytes in HIV-1 Infection," <i>Nature</i> 373:123-126
123.	HOH, Rebecca et al. (1998) "De Novo Lipogenesis Predicts Short-Term Body-Composition Response by Bioelectrical Impedance Analysis to Oral Nutritional Supplements in HIV-Associated Wasting." <i>Am. J. Clin. Nutr.</i> 68:154-163
124.	HSIEH, Elaine A. et al. (2004) "Dynamics of Keratinocytes in Vivo Using 2H2O Labeling: A Sensitive Marker of Epidermal Proliferation State," <i>J Invest Dermatol.</i> 123: 530-536
125.	HUDGINS, Lisa C. et al. (2000) "Relationship Between Carbohydrate-Induced Hypertriglyceridemia and Fatty Synthesis in Lean and Obese Subjects." <i>J. Lipid Res.</i> 41:595-604
126.	HUDGINS, Lisa Cooper et al. (1996) "Human Fatty Acid Synthesis is Stimulated by a Eucaloric Low Fat, High Carbohydrate Diet" <i>J. Clin. Invest.</i> 97(9): 2081-2091
127.	HUMPHREY, Thomas J. et al. (1975) "A New Method for the Measurement of Protein Turnover" <i>Biochem. J.</i> 148: 119-127
128.	HUMPHREY, Thomas J. et al. (1976) "A Sensitive Method for Measuring Protein Turnover Based on the Measurement of 2-3H-labeled Amino Acids in Proteins" <i>Biochem. J.</i> 156: 561-568
129.	JAMES, J.S. (1998) "Clinical Implications of Virological Failure: Interview with Steven Deeks, M.D., San Francisco General Hospital," <i>AIDS Treatment News</i> , 289:6-7
130.	JENNINGS, Graham et al. (July 1999) "The Use of Infrared Spectrophotometry for Measuring Body Water Spaces." <i>Clinical Chemistry</i> 45(7): 1077-1081
131.	JONES, Peter J.H. et al. (1994). "Interaction of Dietary Fat Saturation and Cholesterol Level on Cholesterol Synthesis Measured Using Deuterium Incorporation" <i>Journal of Lipid Research</i> 35: 1093-1101
132.	JUNG, Hye Rim. et al. (1999) "Metabolic Adaptations to Dietary Fat Malabsorption in Chylomicron-Deficient Mice" <i>Biochem. J.</i> 343: 473-478
133.	JUNGAS, Robert L. (1998) "Fatty Acid Synthesis in Adipose Tissue Incubated in Tritiated Water" <i>Biochemistry</i> 7(10): 3708-3717
134.	KATZ, J. et al. (1976) "Futile Cycles in the Metabolism of Glucose" <i>Curr Top Cell Regul</i> 10: 237-89
135.	KELLEHER, Joanne K. et al. (1992) "Model Equations for Condensation Biosynthesis Using Stable Isotopes and Radioisotopes"

Examiner Signature		Date Considered
--------------------	--	-----------------



Substitute for form 1449/PTO				Complete if Known	
				Application Number	10/523,250
				Filing Date	January 26, 2005
				First Named Inventor	Marc K. HELLERSTEIN
				Art Unit	Not Yet Assigned
				Examiner Name	Not Yet Assigned
Sheet	9	of	15	Attorney Docket Number	416272003800

	Am. J. Physiol. 262: E118-E125				
136.	KHAIRALLAH, Edward A. et al. (1976) "Assessment of Protein Turnover in Perfused Rat Liver: Evidence for Amino Acid Compartmentation from Differential Labeling of Free and tRNA-bound Valine" <i>J Biol Chem</i> 251(5): 1375-1384				
137.	KIM, J. et al. (2000) "A New Stable Isotope-Mass Spectrometric (MS) Method to Measure Proliferation Rates of Colon Epithelial Cells" <i>Faseb Journal</i> 14(4): A718				
138.	LAMMERT, Ole et al. (2000) "Effects of Isoenergetic Overfeeding of Either Carbohydrate or Fat in Young Men" <i>British Journal of Nutrition</i> 84:233-245				
139.	LEE, Chong Do et al. (1999) "Cardiorespiratory Fitness, Body Composition, and All-Cause and Cardiovascular Disease Mortality in Men 1-3" <i>Am J Clin Nutr</i> 69:373-380				
140.	LEUNG, Gordon K. et al. (2000) "A Deficiency of Microsomal Triglyceride Transfer Protein Reduces Apolipoprotein B Secretion" <i>The Journal of Biological Chemistry</i> 275(11):7515-7520				
141.	LEWANCZUK, Richard Z. et al. (2004) "Comparison of the [13 C] Glucose Breath Test to the Hyperinsulinemic-Euglycemic Clamp When Determining Insulin Resistance" <i>Diabetes Care</i> 27(2):441-447				
142.	LIPKIN, M. (1987) "Proliferation and Differentiation of Normal and Diseased Gastrointestinal Cells" In <i>Physiology of the Gastrointestinal Tract</i> , L.R. Johnson ed., Raven Press, New York, pp. 255-284				
143.	LIPKIN, Martin et al. (1963) "Cell Proliferation Kinetics in the Gastrointestinal Tract of Man. I. Cell Renewal in Colon and Rectum" <i>Journal of Clinical Investigations</i> 42(6):767-776				
144.	MACALLAN, Derek C. et al. (1998) "Measurement of Cell Proliferation by Labeling of DNA with Stable Isotope-Labeled Glucose: Studies in Vitro, in Animals, and in Humans" <i>Proc. Natl. Acad. Sci.</i> 95: 708-713				
145.	MAENTAUSTA, O. et al. (1979) "Radioimmunoassay of Conjugated Cholic Acid, Chenodeoxycholic Acid, and Deoxycholic Acid from Human Serum, with Use of 125I-Labeled Ligands" <i>Clin. Chem.</i> 25(2): 264-268				
146.	MARGOLICK, J.B. et al. (1995) "Failure of T-cell Homeostasis Preceding AIDS in HIV-1 Infection," <i>Nature Medicine</i> , 1(7):674-680				
147.	MATHUR-DE VRÉ, R. et al. (1984) "Molecular Aspects of Tritiated Water and Natural Water in Radiation Biology" <i>Prog. Biophys. Molec. Biol.</i> 43: 161-193				
148.	MCCLOSKEY, J.A. (1990) "ElectronIonization Mass Spectra of				

Examiner Signature		Date Considered	
--------------------	--	-----------------	--



Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

				Complete if Known
Application Number	10/523,250			
Filing Date	January 26, 2005			
First Named Inventor	Marc K. HELLERSTEIN			
Art Unit	Not Yet Assigned			
Examiner Name	Not Yet Assigned			
Sheet	10	of	15	Attorney Docket Number 416272003800

	Trimethylsilyl Derivatives of Nucleosides," <i>Meth. Enz.</i> 193:825-841	
149.	MCCUNE, J.M. (1997) "Thymic Function in HIV-1 Disease," <i>Seminars in Immunology</i> 9:397-404	
150.	MCCUNE, Joseph M. et al. (2000) "Factors Influencing T-Cell Turnover in HIV-1-Seropositive Patients" <i>J. Clin. Invest.</i> 105:R1-R8	
151.	MCLEAN, A.R. et al. (1995) "In Vivo Estimates of Division and Death Rates of Human T Lymphocytes," <i>Proc. Natl. Acad. Sci USA</i> 92:3707-3711	
152.	MEIER, P.R. et al. (March 1981) "Rates of Protein Synthesis and Turnover in Fetal Life," <i>Am J Physiol.</i> , 240(3):E320-E324	
153.	MELLORS, J.W. et al. (1995) "Quantitation of HIV-1 RNA in Plasma Predicts Outcome after Seroconversion," <i>Ann. Intern. Med.</i> 122:573-579	
154.	MELLORS, J.W. et al. (1996) "Prognosis in HIV-1 Infection Predicted by the Quantity of Virus in Plasma," <i>Science</i> , 272:1167-70	
155.	MESSMER, Bradley T. et al. (Feb. 10, 2005) "In Vivo Measurements Document the Dynamic Cellular Kinetics of Chronic Lymphocytic Leukemia B Cells," <i>J. Clin. Invest.</i> doi:10.1172/JCI200523409	
156.	MEWISSEN, D.J. et al. (1977) "Comparative Incorporation of Tritium from Tritiated Water Versus Tritiated Thymidine, Uridine or Leucine" <i>Curr Top Rad Res Quart</i> 12: 225-254	
157.	MICHIE, C.A. et al. (1992) "Lifespan of Human Lymphocyte Subsets Defined by CD45 Isoforms," <i>Nature</i> 360:264-265	
158.	MISELL, L. et al. (2000) "A new in Vivo Stable Isotope Method for Measuring Mammary Epithelial Cell Proliferation" <i>Faseb Journal Experimental Biology</i> 2000 14(4), Meeting Abstract 550.5: A786	
159.	MOHRI, Hiroshi et al. (2001) "Increased Turnover of T Lymphocytes in HIV-1 Infection and its Reduction by Antiretroviral Therapy." <i>J. Exp. Med.</i> 194(9): 1277-1287	
160.	MORRIS, Rebecca J. et al. (1997) "Evidence that a Slowly Cyling Subpopulation of Adult Murine Epidermal Cells Retains Carcinogen" <i>Cancer Research</i> 46: 3061-3066	
161.	MORRIS, Rebecca J. et al. (1997) "Evidence that Cutaneous Carcinogen-initiated Epithelial Cells from Mice are Quiescent Rather than Actively Cyling" <i>Cancer Research</i> 57:3436-3443	
162.	MOSIER, D.E. (1995) "CD4.sup.+ Cell Turnover," <i>Nature</i> 375:193-194	
163.	MURALI-KRISHNA, K. et al. (1998) "Counting Antigen-Specific CD8 T Cells: A Reevaluation of Bystander Activation during Viral Infection," <i>Immunity</i> 8:177-187	

Examiner Signature		Date Considered	
--------------------	--	-----------------	--



Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

				Complete if Known
Application Number	10/523,250			
Filing Date	January 26, 2005			
First Named Inventor	Marc K. HELLERSTEIN			
Art Unit	Not Yet Assigned			
Examiner Name	Not Yet Assigned			
Sheet	11	of	15	Attorney Docket Number 416272003800

164.	NEESE, R. A. et al. (1993) "Measurement of Endogenous Synthesis of Plasma Cholesterol in Rats and Humans Using MIDA" <i>Am. J. Physiol.</i> 264: E139-E147	
165.	NEESE, R. A. et al. (Nov. 2002) "Measurement in vivo of Proliferation Rates of Slow Turnover Cells by $^{2\text{H}}\text{O}$ Labeling of the Deoxyribose Moiety of DNA," <i>PNAS</i> , 99(24): 15345-15350	
166.	NEESE, Richard A. et al. (1995) "Gluconeogenesis and Intrahepatic Triose Phosphate Flux in Response to Fasting or Substrate Loads" <i>Journal of Biological Chemistry</i> 270(24): 14452-14463	
167.	NEESE, Richard A. et al. (2001) "Advances in the Stable Isotope-Mass Spectrometric Measurement of DNA Synthesis and Cell Proliferation" <i>Analytical Biochemistry</i> 298(2): 189-195	
168.	OYAIZU, N. et al. (1995) "Role of Apoptosis in HIV Disease Pathogenesis," <i>J. of Clinical Immunology</i> 15(5):217-231	
169.	PALMER, L.D. et al. (1997) "Telomere Length, Telomerase Activity, and Replicative Potential in HIV Infection: Analysis of CD4+ and CD8+ T Cells from HIV-discordant Monozygotic Twins," <i>J. Experimental Medicine</i> 185(7):1381-1386	
170.	PANTELEO, Giuseppe (1999) "Unraveling the Strands of HIV's Web" <i>Nature Medicine</i> 5(1): 27-28	
171.	PAPAGEORGOPoulos, C. et al. (1993) "Toward the Measurement of Protein Synthesis by Mass Isotopomer Distribution Analysis (MIDA): Resolution of Isotopomers in a [d. _{sub} 3]-Leucine Enriched Synthetic Oligopeptide Using Electrospray/Quadrupole Mass Spectrometry (ESI/MS)," <i>Abstract, Federation of American Societies for Experimental Biology</i> 1022:A177	
172.	PARK, S. S., et al. (1997) "Measurement of Small Intestinal Cell Turnover with [6,6, 2H ₂] Glucose," <i>Berkeley Scientific, Abstract</i> 1(2):41-43	
173.	PARKS, Elizabeth J. et al. (1999) "Effects of a Low-Fat, High-Carbohydrate Diet on VLDL-Triglyceride Assembly, Production, and Clearance" <i>J. Clin. Invest.</i> 104(8): 1087-1096	
174.	PARKS, Elizabeth J. et al. (2000) "Carbohydrate-induced Hypertriacylglycerolemia: Historical Perspective and Review of Biological Mechanisms" <i>Am. J. Nutr.</i> 71: 412-433	
175.	PARKS, Elizabeth J. et al. (2000) "Dependence of Plasma a-Tocopherol Flux on Very Low-Density Triglyceride Clearance in Humans" <i>Free Radical Biology & Medicine</i> 29(11): 1151-1159	
176.	PATTERSON, Bruce W. (1993) "Concentration Dependence of	

Examiner Signature		Date Considered
--------------------	--	-----------------

sf-1910278



Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

				Complete if Known	
Application Number	10/523,250				
Filing Date	January 26, 2005				
First Named Inventor	Marc K. HELLERSTEIN				
Art Unit	Not Yet Assigned				
Examiner Name	Not Yet Assigned				
Sheet	12	of	15	Attorney Docket Number	416272003800

	Methyl-Palmitate Isotope Ratios by Electron Impact Ionization Gas Chromatography/Mass Spectrometry" <i>Biol. Mass Spectrom.</i> 22: 481-486	
177.	PATTON, G.M. et al. (July 1979) "Measurements of Fatty Acid Synthesis by Incorporation of Deuterium from Deuterated Water," <i>Biochemistry</i> , 18(14):3186-3188	
178.	PERELSON, A.S. et al.(1996) "HIV-1 Dynamics in Vivo: Virion Clearance Rate, Infected Cell Life-Span, and Viral Generation Time," <i>Science</i> 271:1582-1586	
179.	PERELSON, A.S. et al.(1997) "Decay Characteristics of HIV-1-Infected Compartments During Combination Therapy," <i>Nature</i> 387:188-191.	
180.	POZHARISKI, K.M. et al. (1980) "Study of Kinetics of Epithelial Cell Populations in Normal Tissues of the Rat's Intestines and in Carcinogenesis." <i>Exp. Path.</i> , Bd. 18:387-406	
181.	PREVIS, Stephen F. et al. (2001) "Estimation of Protein Turnover In Vivo Using D2O" <i>Diabetes Abstract Book</i> , 61st Scientific Sessions 50[Supplement 2]: A301	
182.	REICHARD, P. (1978) "From Deoxynucleotides to DNA Synthesis," <i>Federation Proceedings</i> 37(1):9-14	
183.	REICHARD, P. (1988) "Interactions Between Deoxyribonucleotide and DNA Synthesis," <i>Ann. Rev. Biochem.</i> 57:349-374	
184.	ROBERTS, S.B. (1989) "Use of the Doubly Labeled Water Method for Measurement of Energy Expenditure, Total Body Water, Water Intake, and Metabolizable Energy Intake in Humans and Small Animals" <i>Can. J. Physiol. Pharmacol.</i> 67(10): 1190-1198	
185.	ROBIN, Eugene D. et al. (1988) "Mitochondria DNA Molecules and Virtual Number of Mitochondria per Cell in Mammalian Cells" <i>Journal of Cellular Physiology</i> 136:507-513	
186.	ROCHA, B. et al. (1990) "Accumulation of Bromodeoxyuridine-Labelled Cells in Central and Peripheral Lymphoid Organs: Minimal Estimates of Production and Turnover Rates of Mature Lymphocytes" <i>Eur. J. Immunol.</i> 20:1697-1708	
187.	RODA, Aldo et al. (1980) "Results with Six 'Kit' Radioimmunoassays for Primary Bile Acids in Human Serum Intercompared" <i>Clin. Chem.</i> 26(12): 1677-1682	
188.	ROEDERER, M. (July 1995) "T-Dell Dynamics of Immunodeficiency," <i>Nature Medicine</i> 1(7):621-622	
189.	SAWADA, S. et al. (1995) "Comparison of Autoradiography, Liquid	

Examiner Signature		Date Considered
--------------------	--	-----------------



Substitute for form 1449/PTO				<i>Complete if Known</i>	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Application Number	10/523,250
Sheet	13	of	15	Filing Date	January 26, 2005
				First Named Inventor	Marc K. HELLERSTEIN
				Art Unit	Not Yet Assigned
				Examiner Name	Not Yet Assigned
				Attorney Docket Number	416272003800

		Scintillation Counting and Immunoenzymatic Staining of 5-bromo-2'-deoxyuridine for Measurement of Unscheduled DNA Synthesis and Replicative DNA Synthesis in Rat Liver," <i>Mutation Research</i> 344:109-116	
190.		SCALISE, K. (Feb. 11-17, 1998) "Tracking T-Cells in AIDS Patients: A Safe Reliable Method of Measuring Human Cell Generation Rates," <i>Berkeleyan</i> , p. 3.	
191.		SCHWARZ, Jean-Marc et al. (1995) "Short-Term Alterations in Carbohydrate Energy Intake In Humans" <i>J. Clin. Invest.</i> 96: 2735-2743	
192.		SHIGENAGA, M.K. et al. (1994) "Assays of Oxidative DNA Damage Biomarkers 8-Oxo-2'-deoxyguanosine and 8-Oxoguanine in Nuclear DNA and Biological Fluids by High-Performance Liquid Chromatography with Electrochemical Detection," <i>Methods in Enzymology</i> 234:16-33	
193.		SILER, Scott Q. et al. (1998) "The Inhibition of Gluconeogenesis Following Alcohol in Humans" <i>Am. J. Physiol.</i> 275: E897-E907	
194.		SILER, Scott Q. et al. (1998) "VLDL-Triglyceride Production After Alcohol Ingestion, Studied Using [2-13C] Glycerol" <i>J. Lipid Res.</i> 39: 2319-2328	
195.		SMITH, et al. (1983) "The Phosphogluconate Odixative Pathway," in <u>Principles of Biochemistry</u> , 7th edition, McGraw-Hill Book Company, pp. 417-423.	
196.		SPRENT, J. et al. (1995) "CD4+ Cell Turnover," <i>Nature</i> 375:194	
197.		SUNTER, J.P. et al. (1978) "Cell Population Kinetics in the Epithelium of the Colon of the Male Rat." <i>Virchows Archiv. B Cell Path.</i> 26: 275-287	
198.		TEIXEIRA, Luciléia et al. (2001) "Poor CD4 T Cell Restoration After Supression of HIV-1 Replication May Reflect Lower Thymic Function" <i>AIDS</i> 15(14):1749-1756	
199.		TINT, G.S. et al. (1974) "Transformation of 5 α -cholest-7-en-3 β -ol to Cholesterol and Cholestanol in Cerebrotendinous Xanthomatosis" <i>Journal of Lipid Research</i> 15: 256-262	
200.		TRABER, P.G. et al. (1991) "Isolation of Intestinal Epithelial Cells for the Study of Differential Gene Expression Along the Crypt-Villus Axis," <i>Am. J. Physiol.</i> 260:G895-G903	
201.		TRAPPE, T. A. et al. (2002) "Effect of Ibuprofen and Acetaminophen on Postexercise Muscle Protein Synthesis" <i>Am J Physiol Endocrinol Metab</i> 282: E551-E556	
202.		TURNER, Scott M. et al. (2002) "Measurement of Triglyceride (TG)	

Examiner Signature		Date Considered	
--------------------	--	-----------------	--



Substitute for form 1449/PTO				Complete if Known	
				Application Number	10/523,250
				Filing Date	January 26, 2005
				First Named Inventor	Marc K. HELLERSTEIN
				Art Unit	Not Yet Assigned
				Examiner Name	Not Yet Assigned
Sheet	14	of	15	Attorney Docket Number 416272003800	

		Synthesis in Vivo 2H2O Incorporation into TG-Glycerol and Application of Mass Isotopomer Distribution Analysis (MIDA)." Experimental Biology 2002 16[Meeting Abstract 361.9]: A400	
203.		VAN HINSBERGH, V.W.M. et al. (1978) "Palmitate Oxidation by Rat Skeletal Muscle Mitochondria" Archives of Biochemistry and Biophysics 190(2): 762-771	
204.		VAN LOAN, Marta D. et al. (1999) "Monitoring Changes in Fat-Free Mass in HIV-Positive Men With Hypotestosteronemia and AIDS Wasting Syndrome Treated With Gonadal Hormone Replacement Therapy" AIDS 13:241-248	
205.		VEERKAMP, Jacques H. et al. (1986) "14CO2 Production Is No Adequate Measure of [14C]Fatty Acid Oxidation" Biochemical Medicine and Metabolic Biology 35: 248-259	
206.		VÉNIANT, Murielle M. et al. (2000) "Defining the Atherogenicity of Large and Small Lipoproteins Containing Apolipoproteins B100" J. Clin. Invest. 106(12): 1501-1510	
207.		WADKE, M. et al. (July 1973) "Fatty Acid Synthesis by Liver Perfused with Deuterated and Tritiated Water," Biochemistry., 12(14):2619-2624	
208.		WAIN-HOBSON, S. (1995) "Virological Mayhem," Nature 373:102	
209.		WALDEMAN, F.M. et al. (1991) "A Comparison Between Bromodeoxyuridine and 3 H Thymidine Labeling in Human Breast Tumors," Modern Path. 4(6):718-722	
210.		WANG, Wei et al. (2000) "Effects of Nicotinic Acid on Fatty Acid Kinetics, Fuel Selection, and Pathways of Glucose Production in Women." Am. J. Physiol. Endocrinol. Metab. 279: E50-E59	
211.		WATERLOW, J.C. (1980) "Protein Turnover in the Whole Animal" Invest. Cell Pathol. 3: 107-119	
212.		WEI, X et al. (1995) "Viral Dynamics in Human Immunodeficiency Virus Type 1 Infection," Nature 373:117-122	
213.		WINETT, Richard et al. (2000) "Exercise Regimens for Men With HIV." JAMA 284(2): 175-6	
214.		WOLF, George (1995) "The Effect of Fasting and Fructose and Glucose Infusion on Gluconeogenesis and Triose Phosphate Flux in Rats in Vivo" Nutrition Reviews 53(10): 299-302	
215.		WOLFE, R. (1990) "Isotopic Measurement of Glucose and Lactate Kinetics," Ann. Med. 22:163-170	
216.		WOLTERS et al. (1998) "Rapid CD4+ T-Cell Turnover in HIV-1 Infection: a Paradigm Revisited," Immunol. Today 19(1):44-48	

Examiner Signature		Date Considered	
--------------------	--	-----------------	--



Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT***(Use as many sheets as necessary)*

				<i>Complete if Known</i>
Application Number				10/523,250
Filing Date				January 26, 2005
First Named Inventor				Marc K. HELLERSTEIN
Art Unit				Not Yet Assigned
Examiner Name				Not Yet Assigned
Sheet	15	of	15	Attorney Docket Number
				416272003800

217.	WOLTHERS, K.C. et al. (1996) "T Cell Telomere Length in HIV-1 Infection: No Evidence for Increased CD4+ T Cell Turnover," <i>Science</i> 274:1543-1547
218.	WOOD, H.G. et al. (1963) "Estimation of Pathways of Carbohydrate Metabolism," <i>Biochemische Zeitschrift</i> 338:809-847
219.	ZHANG, Z-Q. et al. (Feb. 1998) "Kinetics of CD4+ T Cell Repopulation of Lymphoid Tissues after Treatment of HIV-1 Infection," <i>Proc. Natl. Acad. Sci. USA</i> 95:1154-1159
220.	ZILVERSIMIT, D.B. et al. (1943) "On the Calculation of 'Turnover Time' and 'Turnover Rate' from Experiments Involving the Use of Labeling Agents," <i>J. of General Physiology</i> 26(3):325-331

*EXAMINER: Initial if information considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

sf-1910278